

There is provided a method for growing human intervertebral cells. Disc tissue is surgically removed from a normal disc of a patient, the cells expanded by feeding with a cell stimulant such as a growth factor, or a cytokine or a bioactive agent to form monolayer primary cell cultures on a plastic mesh such as a nylon mesh. In the case of a growth factor, fetal bovine serum is preferred as it improves cell proliferation and production of appropriate extracellular matrix components. In another aspect of this invention, the monolayer primary cell cultures are seeded in alginate or agarose and fed again with the cell stimulant until three-dimensional cell cultures are formed. The cells are recovered from the alginate or agarose or from monolayer cultures. Re-implantation is carried out using bioresorbable carriers or cell suspensions.

Atty Dkt: 8151-24A